

Evan D Kharasch

List of Publications by Year in descending order

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114
papers

4,282
citations

81889

39
h-index

123420

61
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115
all docs

115
docs citations

115
times ranked

4040
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of hepatic and intestinal cytochrome P450 3A and 2B6 in the metabolism, disposition, and miotic effects of methadone. <i>Clinical Pharmacology and Therapeutics</i> , 2004, 76, 250-269.	4.7	213
2	Clinical Pharmacogenetics Implementation Consortium Guideline for <i>CYP2D6</i> , <i>OPRM1</i> , and <i>COMT</i> Genotypes and Select Opioid Therapy. <i>Clinical Pharmacology and Therapeutics</i> , 2021, 110, 888-896.	4.7	212
3	Role of CYP2B6 in Stereoselective Human Methadone Metabolism. <i>Anesthesiology</i> , 2008, 108, 363-374.	2.5	174
4	Role of P-glycoprotein in the intestinal absorption and clinical effects of morphine. <i>Clinical Pharmacology and Therapeutics</i> , 2003, 74, 543-554.	4.7	137
5	Single-dose disulfiram inhibition of chlorzoxazone metabolism: A clinical probe for P450 2E1. <i>Clinical Pharmacology and Therapeutics</i> , 1993, 53, 643-650.	4.7	114
6	Methadone Pharmacogenetics. <i>Anesthesiology</i> , 2015, 123, 1142-1153.	2.5	111
7	Perioperative Opioids and Public Health. <i>Anesthesiology</i> , 2016, 124, 960-965.	2.5	108
8	Intravenous and oral alfentanil as in vivo probes for hepatic and first-pass cytochrome P450 3A activity: Noninvasive assessment by use of pupillary miosis. <i>Clinical Pharmacology and Therapeutics</i> , 2004, 76, 452-466.	4.7	107
9	Enantiomeric Metabolic Interactions and Stereoselective Human Methadone Metabolism. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 321, 389-399.	2.5	102
10	Intraoperative Methadone. <i>Anesthesia and Analgesia</i> , 2011, 112, 13-16.	2.2	95
11	Evaluation of Urine Aquaporin-1 and Perilipin-2 Concentrations as Biomarkers to Screen for Renal Cell Carcinoma. <i>JAMA Oncology</i> , 2015, 1, 204.	7.1	86
12	Stereoselective analysis of bupropion and hydroxybupropion in human plasma and urine by LC/MS/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 857, 67-75.	2.3	82
13	Peptide Functionalized Gold Nanorods for the Sensitive Detection of a Cardiac Biomarker Using Plasmonic Paper Devices. <i>Scientific Reports</i> , 2015, 5, 16206.	3.3	82
14	Does Ketamine-Mediated N-methyl-D-aspartate Receptor Antagonism Cause Schizophrenia-like Oculomotor Abnormalities?. <i>Neuropsychopharmacology</i> , 1998, 19, 434-444.	5.4	79
15	Rapid Clinical Induction of Hepatic Cytochrome P4502B6 Activity by Ritonavir. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 1663-1669.	3.2	78
16	Methadone Pharmacokinetics Are Independent of Cytochrome P4503A (CYP3A) Activity and Gastrointestinal Drug Transport. <i>Anesthesiology</i> , 2009, 110, 660-672.	2.5	77
17	Quinidine as a Probe for the Role of P-Glycoprotein in the Intestinal Absorption and Clinical Effects of Fentanyl. <i>Journal of Clinical Pharmacology</i> , 2004, 44, 224-233.	2.0	72
18	The Metabotropic Glutamate Receptor Subtype 5 Antagonist Fenobam Is Analgesic and Has Improved in Vivo Selectivity Compared with the Prototypical Antagonist 2-Methyl-6-(phenylethynyl)-pyridine. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 330, 834-843.	2.5	69

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19	Comparison of Amsorb [®] , Sodalime, and Baralyme [®] Degradation of Volatile Anesthetics and Formation of Carbon Monoxide and Compound A in Swine In Vivo. <i>Anesthesiology</i> , 2002, 96, 173-182.	2.5	67
20	Methadone metabolism and clearance are induced by nelfinavir despite inhibition of cytochrome P4503A (CYP3A) activity. <i>Drug and Alcohol Dependence</i> , 2009, 101, 158-168.	3.2	67
21	Current Concepts in Methadone Metabolism and Transport. <i>Clinical Pharmacology in Drug Development</i> , 2017, 6, 125-134.	1.6	67
22	Urine Aquaporin 1 and Perilipin 2 Differentiate Renal Carcinomas From Other Imaged Renal Masses and Bladder and Prostate Cancer. <i>Mayo Clinic Proceedings</i> , 2015, 90, 35-42.	3.0	64
23	Role of Cytochrome P4502B6 in Methadone Metabolism and Clearance. <i>Journal of Clinical Pharmacology</i> , 2013, 53, 305-313.	2.0	62
24	Gene Expression Profiling of Nephrotoxicity from the Sevoflurane Degradation Product Fluoromethyl-2,2-difluoro-1-(trifluoromethyl)vinyl Ether (Compound A) in Rats. <i>Toxicological Sciences</i> , 2006, 90, 419-431.	3.1	61
25	Metal-Organic Framework Encapsulation Preserves the Bioactivity of Protein Therapeutics. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800950.	7.6	61
26	Influence of Hepatic and Intestinal Cytochrome P4503A Activity on the Acute Disposition and Effects of Oral Transmucosal Fentanyl Citrate. <i>Anesthesiology</i> , 2004, 101, 729-737.	2.5	60
27	Stereoselective Bupropion Hydroxylation as an In Vivo Phenotypic Probe for Cytochrome P4502B6 (CYP2B6) Activity. <i>Journal of Clinical Pharmacology</i> , 2008, 48, 464-474.	2.0	60
28	Add-on plasmonic patch as a universal fluorescence enhancer. <i>Light: Science and Applications</i> , 2018, 7, 29.	16.6	58
29	Differences in Methadone Metabolism by CYP2B6 Variants. <i>Drug Metabolism and Disposition</i> , 2015, 43, 994-1001.	3.3	56
30	Metal-Organic Framework as a Protective Coating for Biodiagnostic Chips. <i>Advanced Materials</i> , 2017, 29, 1604433.	21.0	56
31	Perioperative Pharmacokinetics of Methadone in Adolescents. <i>Anesthesiology</i> , 2011, 115, 1153-1161.	2.5	51
32	Intraindividual Variability in Male Hepatic CYP3A4 Activity Assessed by Alfentanil and Midazolam Clearance. <i>Journal of Clinical Pharmacology</i> , 1999, 39, 664-669.	2.0	49
33	Influence of Age on the Pharmacokinetics and Pharmacodynamics of Oral Transmucosal Fentanyl Citrate. <i>Anesthesiology</i> , 2004, 101, 738-743.	2.5	48
34	Perioperative Gabapentinoids. <i>Anesthesiology</i> , 2020, 133, 251-254.	2.5	48
35	Stereoselective Metabolism of Bupropion by Cytochrome P4502B6 (CYP2B6) and Human Liver Microsomes. <i>Pharmaceutical Research</i> , 2008, 25, 1405-1411.	3.5	46
36	Molecular Characterization of CYP2B6 Substrates. <i>Current Drug Metabolism</i> , 2008, 9, 363-373.	1.2	46

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37	Role of Cytochrome P4502B6 Polymorphisms in Ketamine Metabolism and Clearance. <i>Anesthesiology</i> , 2016, 125, 1103-1112.	2.5	46
38	Effect of Rifampicin on S-ketamine and S-norketamine Plasma Concentrations in Healthy Volunteers after Intravenous S-ketamine Administration. <i>Anesthesiology</i> , 2011, 114, 1435-1445.	2.5	44
39	Methadone <i>N</i> -Demethylation by the Common <i>CYP2B6</i> Allelic Variant <i>CYP2B6.6</i> . <i>Drug Metabolism and Disposition</i> , 2013, 41, 709-713.	3.3	42
40	PEGylated Artificial Antibodies: Plasmonic Biosensors with Improved Selectivity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23509-23516.	8.0	40
41	How central is central poststroke pain? The role of afferent input in poststroke neuropathic pain: a prospective, open-label pilot study. <i>Pain</i> , 2018, 159, 1317-1324.	4.2	40
42	Investigating the contribution of <i>CYP2J2</i> to ritonavir metabolism in vitro and in vivo. <i>Biochemical Pharmacology</i> , 2014, 91, 109-118.	4.4	38
43	Opioid-free Anesthesia: Time to Regain Our Balance. <i>Anesthesiology</i> , 2021, 134, 509-514.	2.5	37
44	Rapid, Point-of-Care, Paper-Based Plasmonic Biosensor for Zika Virus Diagnosis. <i>Advanced Biology</i> , 2017, 1, e1700096.	3.0	36
45	Peer Review Matters: Research Quality and the Public Trust. <i>Anesthesiology</i> , 2021, 134, 1-6.	2.5	36
46	Lack of Indinavir Effects on Methadone Disposition Despite Inhibition of Hepatic and Intestinal Cytochrome P4503A (<i>CYP3A</i>). <i>Anesthesiology</i> , 2012, 116, 432-447.	2.5	35
47	Rational Perioperative Opioid Management in the Era of the Opioid Crisis. <i>Anesthesiology</i> , 2020, 132, 603-605.	2.5	34
48	Opioids and Public Health: The Prescription Opioid Ecosystem and Need for Improved Management. <i>Anesthesiology</i> , 2022, 136, 10-30.	2.5	31
49	Halogen Substitution Influences Ketamine Metabolism by Cytochrome P450 2B6: In Vitro and Computational Approaches. <i>Molecular Pharmaceutics</i> , 2019, 16, 898-906.	4.6	30
50	Ultrarobust Biochips with Metal-Organic Framework Coating for Point-of-Care Diagnosis. <i>ACS Sensors</i> , 2018, 3, 342-351.	7.8	29
51	Gold Nanorod Size-Dependent Fluorescence Enhancement for Ultrasensitive Fluoroimmunoassays. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11414-11423.	8.0	29
52	Influence of Sevoflurane on the Metabolism and Renal Effects of Compound A in Rats. <i>Anesthesiology</i> , 2005, 103, 1183-1188.	2.5	28
53	Efavirenz Metabolism: Influence of Polymorphic <i>CYP2B6</i> Variants and Stereochemistry. <i>Drug Metabolism and Disposition</i> , 2019, 47, 1195-1205.	3.3	28
54	Evaluation of First-Pass Cytochrome P4503A (<i>CYP3A</i>) and P-Glycoprotein Activities Using Alfentanil and Fexofenadine in Combination. <i>Journal of Clinical Pharmacology</i> , 2005, 45, 79-88.	2.0	27

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55	Disposition and miotic effects of oral alfentanil: A potential noninvasive probe for first-pass cytochrome P4503A activity. <i>Clinical Pharmacology and Therapeutics</i> , 2003, 73, 199-208.	4.7	26
56	Bioplasmonic calligraphy for multiplexed label-free biodetection. <i>Biosensors and Bioelectronics</i> , 2014, 59, 208-215.	10.1	26
57	Sensitivity of Intravenous and Oral Alfentanil and Pupillary Miosis as Minimally Invasive and Noninvasive Probes for Hepatic and First-Pass CYP3A Activity. <i>Journal of Clinical Pharmacology</i> , 2005, 45, 1187-1197.	2.0	24
58	New Insights into the Mechanism of Methoxyflurane Nephrotoxicity and Implications for Anesthetic Development (Part 2). <i>Anesthesiology</i> , 2006, 105, 737-745.	2.5	24
59	Single-dose disulfiram does not inhibit CYP2A6 activity*. <i>Clinical Pharmacology and Therapeutics</i> , 1998, 64, 39-45.	4.7	22
60	Cytochrome P4503A Does Not Mediate the Interaction between Methadone and Ritonavir-Lopinavir. <i>Drug Metabolism and Disposition</i> , 2013, 41, 2166-2174.	3.3	21
61	Bio-enabled Gold Superstructures with Built-in and Accessible Electromagnetic Hotspots. <i>Advanced Healthcare Materials</i> , 2015, 4, 1502-1509.	7.6	21
62	Wherefore Gabapentinoids?. <i>Anesthesiology</i> , 2016, 124, 10-12.	2.5	21
63	Single Molecule Force Spectroscopy to Compare Natural versus Artificial Antibody-Antigen Interaction. <i>Small</i> , 2017, 13, 1604255.	10.0	21
64	New Insights into the Mechanism of Methoxyflurane Nephrotoxicity and Implications for Anesthetic Development (Part 1). <i>Anesthesiology</i> , 2006, 105, 726-736.	2.5	20
65	Pharmacokinetics and analgesic effects of methadone in children and adults with sickle cell disease. <i>Pediatric Blood and Cancer</i> , 2016, 63, 2123-2130.	1.5	19
66	Development and validation of a high-throughput stereoselective LC-MS/MS assay for bupropion, hydroxybupropion, erythrohydrobupropion, and threohydrobupropion in human plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1017-1018, 101-113.	2.3	19
67	Stereoselective Ketamine Metabolism by Genetic Variants of Cytochrome P450 CYP2B6 and Cytochrome P450 Oxidoreductase. <i>Anesthesiology</i> , 2018, 129, 756-768.	2.5	18
68	Opioid Half-lives and Hemlines. <i>Anesthesiology</i> , 2015, 122, 969-970.	2.5	17
69	Common Polymorphisms of CYP2B6 Influence Stereoselective Bupropion Disposition. <i>Clinical Pharmacology and Therapeutics</i> , 2019, 105, 142-152.	4.7	17
70	Nicotine oxidation by genetic variants of CYP2B6 and in human brain microsomes. <i>Pharmacology Research and Perspectives</i> , 2019, 7, e00468.	2.4	17
71	Bioplasmonic paper-based assay for perilipin-2 non-invasively detects renal cancer. <i>Kidney International</i> , 2019, 96, 1417-1421.	5.2	16
72	Perioperative COX-2 Inhibitors: Knowledge and Challenges. <i>Anesthesia and Analgesia</i> , 2004, 98, 1-3.	2.2	15

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73	Influence of HIV antiretrovirals on methadone N-demethylation and transport. <i>Biochemical Pharmacology</i> , 2015, 95, 115-125.	4.4	15
74	Effect of HAART on Brain Organization and Function in HIV-Negative Subjects. <i>Journal of NeuroImmune Pharmacology</i> , 2015, 10, 517-521.	4.1	15
75	Peptide Functionalized Gold Nanorods for the Sensitive Detection of a Cardiac Biomarker Using Plasmonic Paper Devices. <i>Scientific Reports</i> , 2015, 5, .	3.3	15
76	Errors and Integrity in Seeking and Reporting Apparent Research Misconduct. <i>Anesthesiology</i> , 2017, 127, 733-737.	2.5	14
77	The Challenges of Translation. <i>Anesthesiology</i> , 2018, 128, 693-696.	2.5	14
78	Methadone Disposition: Implementing Lessons Learned. <i>Journal of Clinical Pharmacology</i> , 2019, 59, 1044-1048.	2.0	14
79	Toward precision prescribing for methadone: Determinants of methadone deposition. <i>PLoS ONE</i> , 2020, 15, e0231467.	2.5	14
80	Paradoxical Role of Cytochrome P450 3A in the Bioactivation and Clinical Effects of Levo- α -Acetylmethadol. <i>Clinical Pharmacokinetics</i> , 2005, 44, 731-751.	3.5	13
81	Development, validation and application of a comprehensive stereoselective LC/MS \rightarrow MS assay for bupropion and oxidative, reductive, and glucuronide metabolites in human urine. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1027, 239-253.	2.3	13
82	Stereoselective Bupropion Hydroxylation by Cytochrome P450 CYP2B6 and Cytochrome P450 Oxidoreductase Genetic Variants. <i>Drug Metabolism and Disposition</i> , 2020, 48, 438-445.	3.3	13
83	Low-dose augmentation with buprenorphine increases emotional reactivity but not reward activity in treatment resistant mid- and late-life depression. <i>NeuroImage: Clinical</i> , 2019, 21, 101679.	2.7	11
84	Persistent Postoperative Opioid Use. <i>Anesthesiology</i> , 2020, 132, 1304-1306.	2.5	11
85	Steroid Anesthesia Revisited. <i>Anesthesia and Analgesia</i> , 2015, 120, 983-984.	2.2	10
86	Bioequivalence and Therapeutic Equivalence of Generic and Brand Bupropion in Adults With Major Depression: A Randomized Clinical Trial. <i>Clinical Pharmacology and Therapeutics</i> , 2019, 105, 1164-1174.	4.7	10
87	The metabotropic glutamate receptor 5 negative allosteric modulator fenobam: pharmacokinetics, side effects, and analgesic effects in healthy human subjects. <i>Pain</i> , 2020, 161, 135-146.	4.2	10
88	Novel Coronavirus 2019 and Anesthesiology. <i>Anesthesiology</i> , 2020, 132, 1289-1291.	2.5	10
89	Observations and Observational Research. <i>Anesthesiology</i> , 2019, 131, 1-4.	2.5	9
90	Changes. <i>Anesthesiology</i> , 2016, 125, 4-6.	2.5	6

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91	Amplification of Refractometric Biosensor Response through Biomineralization of Metal-Organic Framework Nanocrystals. <i>Advanced Materials Technologies</i> , 2017, 2, 1700023.	5.8	6
92	Uncertainty and Certainty. <i>Anesthesiology</i> , 2020, 133, 1-4.	2.5	6
93	Automated radiochemical synthesis and biodistribution of [11C]-l-tyrosine-acetylmethadol ([11C]LAAM). <i>Applied Radiation and Isotopes</i> , 2014, 91, 135-140.	1.5	4
94	Editor's Note: <i>Anesthesiology</i> 2018. <i>Anesthesiology</i> , 2018, 129, 1-4.	2.5	4
95	Plasma and cerebrospinal fluid pharmacokinetics of ondansetron in humans. <i>British Journal of Clinical Pharmacology</i> , 2021, 87, 516-526.	2.4	4
96	Sleeping to Survive?. <i>Anesthesiology</i> , 2013, 119, 755-756.	2.5	3
97	Editor's Note: <i>Anesthesiology</i> 2017. <i>Anesthesiology</i> , 2017, 127, 1-2.	2.5	3
98	Strain-specific altered nicotine metabolism in 3,3'-diindolylmethane (DIM) exposed mice. <i>Biopharmaceutics and Drug Disposition</i> , 2019, 40, 188-194.	1.9	2
99	Understanding Research Methods and the Readers' Toolbox: A New Article Type. <i>Anesthesiology</i> , 2019, 130, 181-182.	2.5	2
100	Trusted Evidence: Discovery to Practice. <i>Anesthesiology</i> , 2019, 130, 1-2.	2.5	2
101	Stereoselective Steady-State Disposition and Bioequivalence of Brand and Generic Bupropion in Adults. <i>Clinical Pharmacology and Therapeutics</i> , 2020, 108, 1036-1048.	4.7	2
102	Opioid-free Anesthesia: Reply. <i>Anesthesiology</i> , 2021, 135, 759-760.	2.5	2
103	Changes. <i>Anesthesiology</i> , 2016, 125, 1-3.	2.5	1
104	Misidentification of Bupropion Glucuronide Metabolites and Re-evaluation of Metabolite Pharmacokinetics. <i>Drug Metabolism and Disposition</i> , 2016, 44, 1851-1851.	3.3	1
105	Comment on "Postoperative Opioid Prescribing and Pain". <i>Annals of Surgery</i> , 2020, 271, e125.	4.2	1
106	<i>Anesthesiology</i> : Reflecting and Leading. <i>Anesthesiology</i> , 2021, 135, 551-554.	2.5	1
107	Characterizing the abuse potential of loperamide via physiologically-based pharmacokinetic/pharmacodynamic modeling and simulation (1053.6). <i>FASEB Journal</i> , 2014, 28, 1053.6.	0.5	1
108	Methadone pharmacogenetics in vitro and in vivo: Metabolism by CYP2B6 polymorphic variants and genetic variability in pediatric disposition. <i>British Journal of Clinical Pharmacology</i> , 2022, , .	2.4	1

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109	Mutations in a Molecule: The Virtues of Antagonism. Mayo Clinic Proceedings, 2008, 83, 1083-1086.	3.0	0
110	Reply to comment on: Pharmacokinetics and analgesic effects of methadone in children and adults with sickle cell disease. Pediatric Blood and Cancer, 2017, 64, e26343.	1.5	0
111	Journal-related Activities and Other Special Activities at the 2018 American Society of Anesthesiologists Meeting. Anesthesiology, 2018, 129, 634-643.	2.5	0
112	Innovation in Clinical Research Regulation. Anesthesiology, 2020, 132, 1-4.	2.5	0
113	Authorship and Publication Matters: Reply. Anesthesiology, 2022, 136, 245-245.	2.5	0
114	Anesthetic MAC: Origin, Utility, and Nomenclature Revisited. Anesthesiology, 2022, 136, 885-887.	2.5	0